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(74) Agents: BUTCH, Peter, J. et al.; Synnevstvedt & Lechner Llp, 2600 Aramark Tower, Philadelphia, PA 19107-2950 (US).

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(71) Applicant (*for all designated States except US*): RUTGERS, THE STATE UNIVERSITY [US/US]; Old Queens, Somerst Street, New Brunswick, NJ 08903 (US).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): NOSKER, Thomas, J. [US/US]; 4 Green Farm Lane, Stockton, NJ 08559 (US). RENFREE, Richard, W. [US/US]; 211 Katherine Street, Scotch Plains, NJ 07076 (US). KERSTEIN, James [US/US]; 30 Corey Lane, Watchung, NJ 07069 (US).

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(54) Title: USE OF RECYCLED PLASTICS FOR STRUCTURAL BUILDING FORMS

(57) Abstract: Modular plastic structural composites having a web section disposed along a horizontal axis and at least one flange section disposed along a horizontal axis parallel thereto and integrally molded to engage the top or bottom surface of the web section, wherein said composite is formed from a mixture of (A) high density polyolefin and (B) a thermoplastic-coated fiber material, polystyrene, or a combination thereof. Composites molded in the form of I-Beams and bridges constructed therefrom are also disclosed.